1950-51 **File No.** 1932/36-IL

B CLASS

P.W. **DEPARTMENT**
EI **BRANCH**

Subject:— POWER SHORTAGE COMMITEE'S REPORT (Add HOC Committee)

B[K]-1951

EI. Br

File No. 1932/36-II

Etd. Secti. Slip. 24 A

G.R., G.D., No. 2408, dated 22-6-22.]

Correspondence

DOCKET SHEET

Subject :—

File No. 1932/36-P

P. W **DEPT.**

E **BRANCH.**

References :—

Original file has been sent for Mahasachet.

Date	To whom sent.	Notes and instructions.

11

1932/36

El. B.C.(II) P.W.D.

The papers regarding power shortage are put up for the use of the Secy. at the time of the meeting to be held in the room of the H.M.,P.W.D. , at the Civil Sectt. tomorrow at 4-30 p.m?

Id/-

6.2.51

The meeting was held from 4-30 to 6-30 p.m.

1)It was decided ~~now~~ that from 16th Feb. 50. the 'old' hours of 3 shifts working will be restored in Textile Mill. Action will be taken by Millowners Asson. & Labours. Govt. will not be directly concerned.

2)Half ~~staffing~~ staggering is likely to be removed, at the earliest by Aug. '51.

In ~~new of~~ view of (2) , following action be taken at once by Govt.

3)~~These~~ There is misuse , in off. hours, of ~~migret~~ night-loads. Such cases should be checked, & the question of the installig Time ~~sketches~~ switches in all such ~~migret~~ night-loads be considered.

4) Early orders to issue on the following recommendation of the Power Shortage Committee

(a)"Holiday" ~~no~~ staggering be enforced at once in all large & ~~medimum~~ industries.

(b) ~~Homes~~ Hours of Working of Floor Mills in Bombay Island is ~~suggested~~ staggered.

Immediate action ~~should be~~ needed re (B)

Id/-

7/2

at once

El. B (II)

Id/-

8/2 Id/-

S.J.D. 8/2/50

TATA HYDRO-ELECTRIC AGENCIES LIMITED

Bombay House, Bruce Street, Fort.

Telegram Thebamco -Telephone 26041

BOMBAY

Confidential

D.O. February 2, 1950

Dear Mr. Bedekar,

This is just to acknowledge receipt of your confidential Circular dated 31st January and, in reply to inform you that I shall arrange to attend the conference to be held at 4 p.m. on Tuesday, the 7th February, in the room of the Honourable Minister, Public Works Department, in the Civil Secretariat to discuss the power supply situation.

You will be pleased to know that the repairs to our Khopoli generator were completed on 30th January and the unit brought back into service.

The installation of new waterwheel buckets on the unit at the Bhivpuri power station is also making satisfactory progress and we expect to have this unit recommissioned on the 6th February.

The manufacture of the complete set of coils and half set of lamination for the 22,000 Kw. Bhira generator is already being carried out by the manufacturers on an urgent priority basis and we are assured by the Chairman of the English Electric Company that every effort is being made to supply these materials at the earliest possible date. It should be possible to let you have by the time of the conference a clear indication as to when the rewinding can be completed and the unit recommissioned for service.

I have no difinite information with regard to the situation at Chola. They had two of their four generating sets out of service, but since the 1st February a third set has been recommissioned and they

carried.....

carried a load of nearly 29,000 Kw during the peak load periods.

We were all pleased and relieved to learn from reading the press report of the Honourable Minister's speech that orders have at last been placed for the generating plant required for the steam station being provided by Government at Chola and we would be interested to know when it is expected to have the new station ready for service.

Yours sincerely,

Sd/-

W S Nelson

G. V. Bedekar, Esq., I.C.S.
Secretary to the Government of Bombay
Public Works Department
Bombay

WSN-RR

Copy to be sent to Elec. Com.

a copy of this, pl for my table

Sir,

Herewith please

Id/- Id/- Id/-
9/2 9/2 9/2
(read) H.M.

Id/-
2/2
Id/-
5/2/50

1932/36
10494

El. B. (II). P. W. D.

As directed by Secy. in item (3) of his note within, the El. Engr. to Govt. may be addressed in the matt-er. The El necy. draft is put up for approval.

2. Regarding enforcing of Holiday Staggering in all large and medium scale industries (nontextile) a list of such consumers is necy. to issue the orders on them under Section 3 of the B'bay Ely. (Emergency Power) Act, 1946. The Govt. can thereafter under Sec. 7 of the Amendment Act of 1949, (Section 6 B of the Act, 1946) issue on order directing the licensee to discontinue the supply of electrical energy to such undertakings as contravenes the orders made above. The Tata's may be addressed in the matter.

3. It is also noted that the Amendment Act, 1946 allows the Provl. Govt. to make any provisions in any order (Section 7 (2)) made under section 6A (1) for any incidental or supplementary matters which it may think necy. or expedient for the purposes of the order. Accdly., the licensees can under the powers given to them under the above order, take the necy. action re: Holiday Staggering. As the point is not beyond a doubt, the papers may if approved be referred U.O. to R.L.A. for early advice in the matter. after issue of the drafts.

4. With regard to item 4(b) of Secy's note, the B.E.S. & T. may be addressed in the first instance.

Id/- Id/-

10/14-2-50 14/2/50

Secy. Re. misuse of night- load, pl. let me have an idea of the no. of sanctioned night- loads by capacity E.g. 1 to 25 and 26-50 & above 50 Kw. I think we may insist on installation of time switches in case of all high loads (say above 25 to 50 according to No. of connections). As for otners, a surprise check '-....

check & disconnection of those found guilty of above would do.

Re. otner draft , pl. speak

Id/-

16/2

Id/-
16/2

Night load sanctioned.

i) our 50 Kw. 28 -) Ac. put up details as at A.
ii) bet 25 to 50 25) 5000 Kw.
iii) below 25 66) ac 500 K.W.

Id/-
16/2

Id/-

23/2

Spoken
~~Spekes~~. The Secy Stated that these matters will be discussed by the Standing Advisory Committee in its next meeting. It is a pity that the Branch did not keep me informed of this fact & it had also not put up to me tne agenda of the S.A.C. meeting. No action necessary until the policy is decided.

Id/-

24/2

Sir, the *Branch has had no information of this fact. The agenda was sent by Mr. Vajifdar to the Secy. direct.

Id/-

26/2

S.J.D.

11/7/56

7

No. 1932/36-El. (II). P.W.D.

B.C.,(Bombay No.1),

Feby. 1950.

To

The Genl. Manager,

B.E.S.& T.,Undertaking

Bombay.

Sub:- Staggering of hours of flour mills in Bombay City

Dear Sir,

I am to state that the Power Shortage Committee recently appointed by the Govt. has, inter alia, recommended that all flour mills north of Byculla Bridge should be closed on Mondays, Wednesdays and Firdays between 6-30 p.m. and 8.30 p.m. and on Tues-days, Thursdays and Saturdays between 3 p.m. and 5 p.m. Similarly, flour mills south of Byculla Bridge should be closed on Mondays, Wednesdays and Fridays between 3 p.m. and 5 p.m. and on Tuesdays, Thursdays and Saturdays between 6.30 p.m. and 8.30 p.m. It is expected that this will help to diminish the peak load at a critical time of the day by about 2000 kW. Govt. is pleased to accept this recommendation of the Power Shortage Committee and to request you to take steps to inform the owners of flour mills accordingly under advice to Govt. You are also requested to report the names of such flour mill owners who are unwilling to abide by the staggering arrangements proposed above, giving their full names and addresses.

3. While intimating to the flour mill owners the above arrangements of staggering, the penalty that may be entailed, if they contravene the orders may be impressed on them. The panalty is provided in Sec. 8 of the Bombay Ely. (E.P.) Act, 1946 and is impris-

~~imprssed on them.--The penalty is provided in~~

imprisonment for a term which may extend upto

6 months or fine or both.

Yours faithfully.

D.A. Nil.

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Copy forwarded to:

Messrs Tata Hydro Electric Agencies Ltd.

The Electrical Commr. with the G. of B.

The Electrical Engr. to Govt.

The Labour Department.

Id/-

14.2.50

Id/ -

14.2.50

S.J.D.

11/7/56

No. 1932/36. El. (II) P. W. D.,

B.C.(Bombay No.1).,

Feb. 1950.

To

The Electrical Engr. to Govt.,

Sub:- Misuse of night loads outside restricted hours.

One of the decisions reach-ed at on ad-hoc discussion of matters arising out of th report of the Power Shortage Committee, was abt. the ways and means to prevent the misuse, during off hours, or night loads. i.e., sanctio given between the hours of 10-30 P.M. and 7 A.M. Sanctions of night loads so far given amount to about 5700 kW. with 28 consumer of over 50 KW's , 25 Nos, between 25 and 50 KW. and 66 Nos, with sanctions less than 25kW's.

2. In order of prevent the misuse of night loads during off hours, it is considered advisable

i) to instal time switches in the case of high power consumers, say above 25kW's

and ii) to introduce a system of surprise checks of other ~~abnsuder~~- consumers and to disconnect the loads in case of above outside the sanctioned period,

~~Ti~~- You are therefore requested to take the necessary action accordingly immediately in consultation with the licensees concerned and report the action taken, to Govt. in due course.

3. Your are also requested to report to Govt. the names of licenses who are not agreeable to instal time switches at their own expense.

By order etc.

D.A.-

Copy to -

M/S Tata Hydro El. Agencies, Ltd,

The Elec. Commr., with the G. of B.

U.S. Id/- 23/2

No. 1932/36-El.(II). P.W.D.

B.C. (Bombay No.1),.

Feb. 1950.

To,

M/s. The Tata Hydro El. Power Supply Co. Ltd.,

M/s. The Andhra Valley Power S. Co., Ltd.,

M/s. The Tata Power Co., Ltd.,

M/s. The B.E.S. & T.U.,

M/s. The B.S.E.S. Ltd.,

M/s. The Thana El. S. Co., Ltd.,

M/s. The Kalyan El. S. Co., Ltd.,

M/s. Poona El. S.C., Ltd.,

Subject:- Control over the Supply of Electricity.

Dear Sir,

I am directed to invite attention to G. L. No. 1932/36-El (II) dated the 23rd Jan. 1950 an to request you to inform Govt. of the action m taken by you in the matter as early as possible.

Yours faithfully,

D.A.-Nil. .....

Copy forwarded for information to -

the Elec. Engr. to Govt.

the Elec. Commr. With the Govt. of B'bay.

M/s. The Tata Hydro Elec. Agen., Ltd.

Id/-

23/2..

S.J.D.

11/7/56

Minutes of the meeting held in H.M. P.W.D. 's room at 4-30 P.M. on 7-2-1950 for consideration of the recommendations of the Bombay Shortage Committee.

The following were present:

1) H.M. P.W.D.
2) H.M. Labour.
3) H.M. Development.
4) H.M. Health.
5) Shri V.N.Chandavarkar (with M/s N.S.V. Aiyer & R. G. Gokhle).
6) Shri C.S. Patel.
7) Shri G.D. Ambekar.
8) " R. Kulkarni.
9) Mr. W.A. Nelson.
10) " C. McLenan.
11) Secretary, P.W.D.
12) Secretary, Labour.
13) Secretary, Development.
14) Electrical Commissioner.
15) Superintending Engineer (Hydro), Elgrid.
16) Executive Engineer (Commercial),

H.M.P.W.D. opening the discussion said that in view of another breakdown on the Tata Hydro Electric system, it was necessary to reconsider the recommendations of the Power Shortage Committee regarding half removal of staggering. He said that the Committee's recommendations were based on the assumption that nothing would go wrong on the interconnected system and all the machines would be in continuous operation. Actually however it is not so now and therefore it is necessary to review the position afresh. Due to the breakdown of the 21000 KW machine at Bhira last December it is understood that there is no spare capacity available at present at all for half removal of staggering. Tatas

have2——

have stated that it will take about six to eight months for its repairs. Besides, due to this breakdown their maintenance programme is upset and therefore the schedule of programme for maintenance stated in the Committee's report cannot be maintained.

Recd, in H.M. office at 11.15 A.M. on 23.2.50.
2. H.M. has seen the original note of the ~~year~~ El. Commr., and has sent to the Secy. to discuss.

Id/-
23-2-50

On an enquiry from H.M Labour, Mr. Nelson stated that this machine was rewound during the war. The material being of inferior quality has given trouble at present. He said that due to a weak spot in one of the coils, a flash has occurred which had burnt out the laminations as well. It will take about six to eight months to repair.

H.M. P.W.D. pointed out that althought we all hope that the machine will be in service within six months period, we should not be too optimistic a about the commissioning of this set very early as could be seen from the experience of the Grid Department that the deliverres of materials by foreign manufacturers are very uncertain. Besides, he said the saving of 9000 KW of seasonal load assumed by the Committee had not actually materialised and the peak has so far gone down by about 5000 KW only. The figure of 9000 KW was given by Tatas to the Committee.

Mr. Nelson explaining the position said that although the saving of 9000 KW of the seasonal load may have taken place, the total peak demand has not gone down as expected, because of the existing loads on the system

Mr. Ambekar said that he had noticed that although Government orders were there not to operate the new loads, sanctioned last year, during the peak hours, these are being operated during peak hours, without any check, by the parties concerned. He suggested that measures should be adopted to control all such operations during peak time by installing time switches. During the discussion it was found that a

S.S.D.
14-7-56

large

a large number of time switches would have to be installed on all such new premises where power supply has been given in early 1949. It was mentioned that their prices were high and it is not possible to obtain them readily.

H.M. P.W.D. informed those present that steps were under way to provide a to-tal of about 60,000 KW additional capacity in the interconnected system of which 45,000 KW of steam turbo plant will be installed by Government.

Shri Raja Kulkarni said that holiday staggering to all other industries should be extended immediately by Government to which H.M. P.W.D. replied that the steps were already being taken.

H.M. P;W.D. said that the foundations of the Kundli dam were being looked into by Government.

Shri Chandavarkar suggested that the trouble with Chola boilers was due to poor quality of coal received by them from the common pool of all India Railways. The G.I.P. Railway had their own collieries and the Bombay Government should see that they get the best quality of coal for their boilers so that no troubles are experienced with Chola boilers. Chola station should be given the highest priority for the best quality of coal during this emergency period.

Shri Ambekar said that no new loads should be given by Government even at night because, by so doing, energy may be used up and then afterwards the situations may arise when they might be told that there is shortage of water supply in the lakes and therefore staggering cannot be removed, according to the recommendations of the Committee i.e. 12,000 KW. for half removal of staggering and 12,000 KW for new loads.

H.M. P.W.D. said that he believed that the only possibility for half removal of staggering was in August 1951 i.e. after the new machine ordered..

ordered by Tatas comes into service. He said that 12,000 KW was required for half removal but due to on only part saving from the seasonal load and the doubtful saving of full 7000 KW from extension of holiday staggering, there may not be sufficient power av available as balance as was worked out by the Committee. He therefore said that he could safely say that half removal can be effected in about August 1951 i.e. after the new plant on order by Tatas is commissioned but not earlier than that.

Shri Chandavarkar wanted an assurance from H.M. P.W.D. that half staggering will atleast be removed in August 1951 and not delayed further. He also said that the sanctioned loads which were not connected due to suspension order of the Government should be given first preference. He suggested that the proposed new shift system for the three shift mills should be introduced forthwith by Government with concurrence of labour. He also requested the labour members to consider working half an hour more on the short day in two shift mills so that there may not be any loss of working hours in the interest of textile production. The labour members however did not agree to this latter suggestion but they agreed to the introduction of new arrangement for three shift mills ~~machine~~, immediately.

It was mentioned by H.M. P.W.D. that after the machine , which is at presetn out of commission in the Tata's system, is repaired and put into service the position regarding removal of half staggering as well as sanction for new loads will be reviewed but he did not hold out any hope of removal of half staggering till about August 1951 when the new 22,000 KW machine on order by Tatas is expected to be put into service.

In reply to Shri Chandavarkar the Secretary P.W.D. ser

S.J.D
11-7-50

P.W.D. said that the sanctioned loads were already being given preference in giving sanctions for night supply.

H.M. P.W.D. assured those present that ~~eve~~ everything possible will be done to remove staggering as early as possible.

Summarising the following were generally accepted;

(1) Holiday staggering should be extended to ~~t~~ the remaining industries immediately.

(2) Staggering of flour mills should be effected as suggested in ~~he~~ the Committee's report.

(3) The question of installation of time switches on industrial consumers to ~~d~~ keep a check on their working hours will be examined.

Would like to know the action taken on this
9d 12/4/50

(4) A revised schedule for working hours for three shift mills to be effective from 16th February 1950.

This was examined & not passed I think.
Id/-
13/4

(5) The sanctioned loads not yet ~~connected~~ connected are to be given preference whenever ~~po~~ power becomes available.

(6) After the commissioning by Tatas of the 66/ 22,000 KW set which is now under repairs , the question of possibility of remaval of ~~h~~ a half staggering before August 1951 and connection of new loads will be reviewed.

Id/-

20/2/50

U.O.R. No. P-Con-1(B) / 1939
Bombay1: 20Feb. 1950.

H.M., P.W.D.

Secy., P.W.D.

K. 20.2.

S.J.D.

11/7/56

For approval. the Elec. Commr. has not yet sent a draft of the members. minutes
Id/-
16/2

Id/-
25/2/50

H.M.

To issue to Secy.
1. Secy Lar/Dev./
2. Elec. Commr.
(with 2 spare copies)

Minutes of a meeting held in H.M., P.W.D:s room on 7th February 1950 in connection with the report of the "Power Shortage Committee".

P R E S E N T.

H.M., P;W.D.

H.M.,Labour,

H.M., Development.

H.M., Health.

Secretary, Labour.

Secretary, Development.

Secretary, P.W.D.

Electrical Commr. with the Govt. of Bombay.

Mr. V.N. Chandavarkar.

Mr. G.D. Ambekar.

Mr. Raja Kulkarni.

Mr. W.S. Nelson.

Mr. C.S. Patel .

1. Removal of half staggering.

It was the general opinion that in view of the recent worsening of the power supply position and the non-realization of the spare capacity for allotment as envisaged in Chapter V, paragraph 2 .8 of the Report of the Power Shortage Committee, the recommendation of that Committee for removal of half staggering by August 1950 could not be given effect to. The present indications are that the earliest date by which sufficient capacity is likely to become available , so as to enable Government to consider seriously the question of removal of half staggeering is August 1951

2. Revised hours for three shift working of textile mills.

In view of the above conclusion with regard to the removal of staggering, it was agreed that the working hours of mills on the treble shift system should be restored to those which were in force

force previously, so as to make good the present loss of six hours per week in the working of these mills. The Millowners' Association will take necessary action to give effect to this decision from 16th February 1950. The loss of half an hour per week in the working hours of mills having the double shift system which has been occasioned by the present hours of work under staggering will, however, continue and the Millowners' Association would not press either for the restoration of this half hour or for reduction of proportionate wages, in view of the agreement of labour representative to restore the status quo ante in the mills working on three shifts.

3. Misuse of Night Loads.

It was represented that there was misuse of the sanctions given for night loads, (10 p.m. to 7 a.m.) in that such sanctions were utilized during the prohibited hours, particularly during the evening peak period. It was suggested that the misuse of sanctioned night loads should be checked by the installation of time switches and by surprise visits to the establishments concerned.

4. Action on Other Recommendations.

The action taken or being taken by Government on the other recommendations of the Power Shortage Committee was explained to the meeting. The meeting desired that early action should be taken on the following important recommendations since such action would result in saving of electricity:-

(a) Holiday staggering for large and medium industrial concerns (non-textile) which are at present not covered by the staggering scheme.

(b) Staggering of the working of 'flour" mills in the North and South of Bombay City, so as to avoid the peak hours.

S.J.D.
11/7/56

1032/36.

El. Br. (II). P.W.D.

Submitted with refce. to H.M's . marginal query at p. 31 ante. and Secy's instruction below it.

2. The question of installing time switches in the case of all motive power consumers, was considered by the St. Adv. Committee at its meeting held on the 10-3-1950 vide item 4 of the minutes of the meeting. Time switches are not available in sufficient numbers and therefore it would be necy. to import them, which would take about a year or so and would also require considerable foreign exchange. Besides there would be no use for these time-switches after some years when the supply position improves. It was therefore not considered worthwhile pursuing the matter further.

Id/- Id/-
13-4-51 14/4
D.S. (Rly.)
Secy.
H.M. Id/-
17/4/51

S.J.D.
11/7/56